

DERWENT-ACC-NO: 1980-64947C

DERWENT-WEEK: 198037

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TITLE: Cheap soil conditioner for, e.g.  
vegetable growing -  
(in)organic component(s),  
activity of soil, and can  
comprises slag, fertiliser and  
adjustable in amt. dependent on  
reduce plant disease

PATENT-ASSIGNEE: JYARANKA KAIHATSU[JYARN]

PRIORITY-DATA: 1979JP-0008367 (January 26, 1979)

PATENT-FAMILY:

| PUB-NO        | PAGES | MAIN-IPC | PUB-DATE      | LANGUAGE |
|---------------|-------|----------|---------------|----------|
| JP 55099992 A | 000   | N/A      | July 30, 1980 | N/A      |

INT-CL (IPC): C09K017/00

ABSTRACTED-PUB-NO: JP 55099992A

BASIC-ABSTRACT:

Soil conditioner (I) comprises 100 pts. wt. of slag, 5-20 pts. by wt. of organic material and additional fertilising componentn. (I) contains inorganic component contg. total N of  $\geq 0.3$  pt. by wt.,  $P_{2O5} \geq 0.4$ ;  $K_2O \geq 0.2$ ;  $SiO_2$  30-40,  $CaO$  35-45;  $FeO$  0.3-1.9 and  $MgO$  3-7, of pH 10-12 and comprises a porous granular body.

Converter slag and blasf furnace slag is pref. used. The conditioner with the organic material of 5-10 pts. by wt. is suitable for the strongly acidic soil. of 7.5-12.5 pts. by wt. is suitable for general acidic soil,

and the one with  
12.5-20 pts. by wt. for weakly acidic soil. The organic  
material contains the  
N, K and P. The amt. of the soil conditioner used is 200-300  
kg./1. per year,  
but 500-1000 kg./1. are for strongly acidic soil.

The soil conditioner is cheap, easy to handle, with  
long-lasting effect. The  
porous granules improve the aeration of soil. (I) can  
control the action of  
harmful bacteria, and can be applied for the cultivation of  
vegetables, fruits,  
flowering and tea plants and grass.

TITLE-TERMS: CHEAP SOIL CONDITION VEGETABLE GROW COMPRISE  
SLAG FERTILISER

ORGANIC COMPONENT ADJUST AMOUNT DEPEND ACTIVE  
SOIL CAN REDUCE PLANT  
DISEASE

DERWENT-CLASS: C04

CPI-CODES: C04-D02; C12-N08;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

V600 P124 P126 P127 M781 R003 M423 M902

PAT-NO: JP355099992A  
DOCUMENT-IDENTIFIER: JP 55099992 A  
TITLE: SOIL MODIFIER  
PUBN-DATE: July 30, 1980

INVENTOR-INFORMATION:  
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COUNTRY  
N/A

APPL-NO: JP54008367  
APPL-DATE: January 26, 1979

INT-CL (IPC): C09K017/00  
US-CL-CURRENT: 71/11, 71/25 , 71/903

ABSTRACT:

PURPOSE: A soil modifier that is mainly composed of slags containing  
 $P_2O_5$ ,  $SiO_2$ , CaO, FeO, and MgO,  
thus preventing the  
soil from hardening and alkali trouble with high durability.

CONSTITUTION: (A) 100 parts by wt. of slag from blast or  
revolving furnaces,  
(B) 5~20 parts of organic substances and (C) additional  
fertility  
components of N, P, K, etc., are combined to give the  
objective soil modifier  
of porous particles wherein, as inorganic components, the  
total nitrogen  
content is no more than 0.3 parts, phosphorus pentoxide is no

more than 0.4  
part, potassium oxide is no more than 0.2 part, silica is  
30~40 parts,  
calcium oxide is 35~45 parts, ferric oxide is 0.3~1.9  
parts, magnesium  
oxide is 3~7 parts and the pH is 10~12.

EFFECT: Slags are effectively utilized and give  
thick-green vegetables and  
fruit with high mineral content.

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